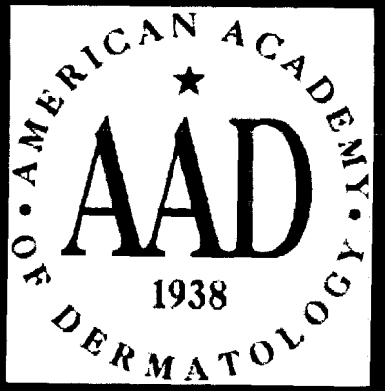
ATTACHMENT 1

High SPF Sunscreens: a Dermatologist's Viewpoint

Mark Naylor, M.D.



Theoretical Effect of SPF on Exposure Reduction

Lifetime UV exposure reduction in the general population can be accomplished by low SPF (4-15) preparations

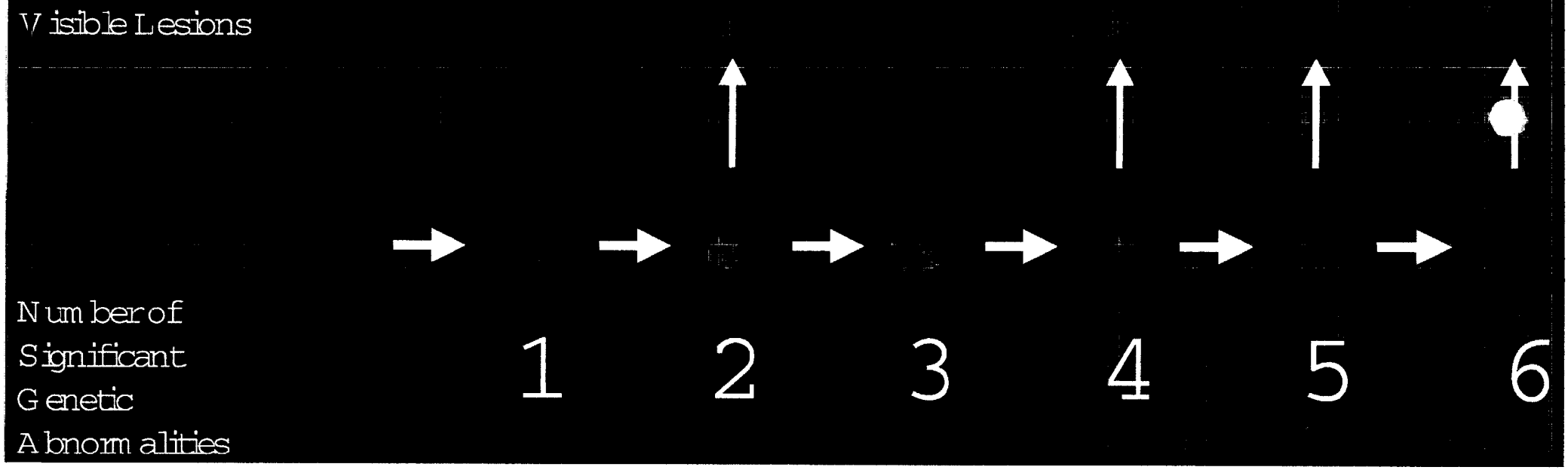
Low SPF preparations are inadequate for high risk individuals

High Risk Individuals

- Individuals with actinic keratoses or skin cancer
- Individuals at high risk for melanoma
- Individuals with outdoor occupations
- Individuals who desire minimal photoaging
- Individuals with photosensitivities

Melanocytic Progression

- Genetic abnormalities are UV-induced
- Complete protection from UV halts progression



High Risk *vs.* Low Risk for Skin Cancer

High Risk

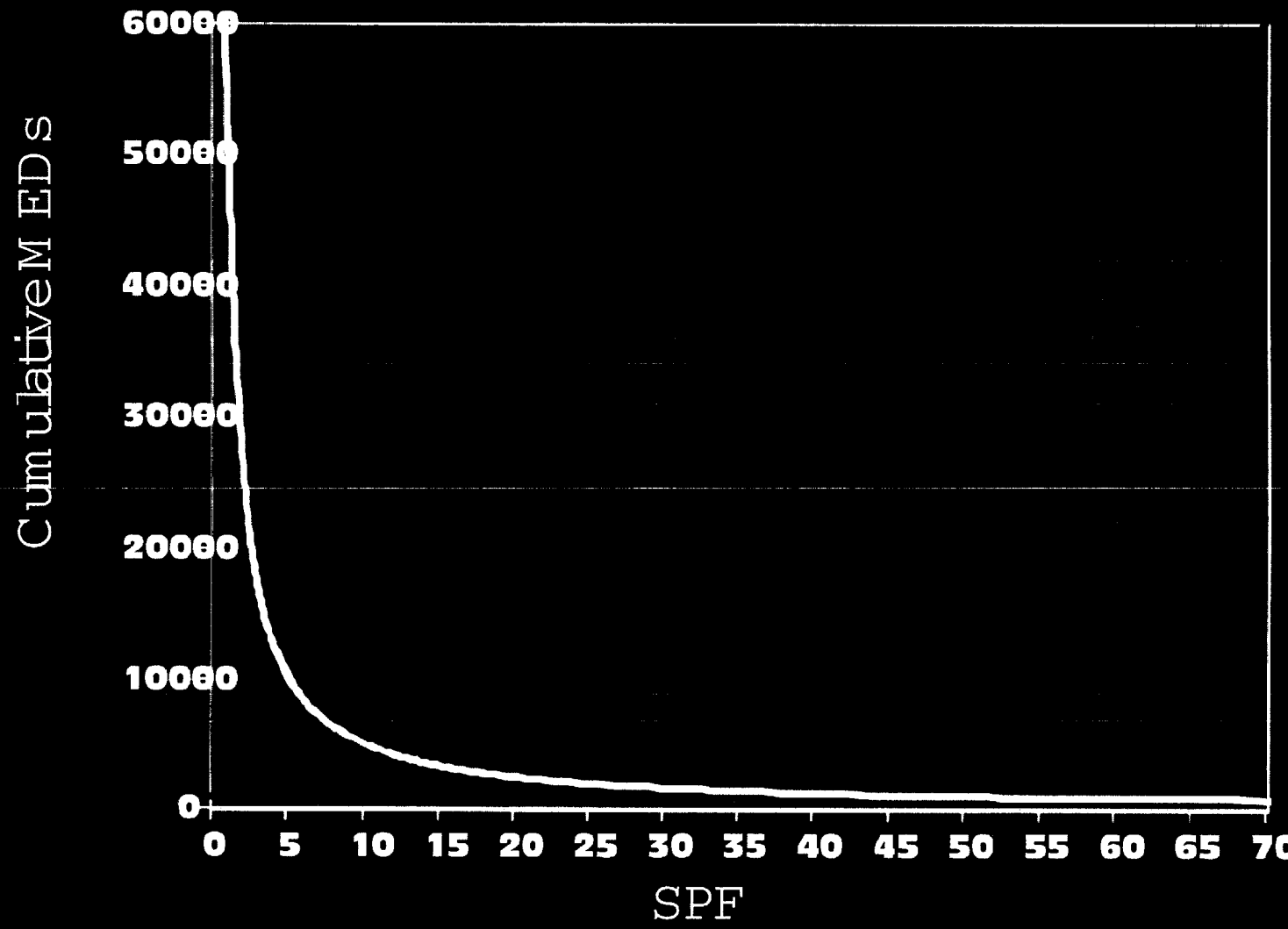
- Many genetic abnomalities
- One UV "hit" may generate a tumor
- Intolerant to UV damage
- >SPF 30 for maximum effect

Low Risk

- No or few genetic abnormalities
- Many "hits" to generate a tumor
- Tolerant to UV damage
- SPF 30 adequate for lifetime cancer prevention?

Theoretical Effect of SPF on Incident UV

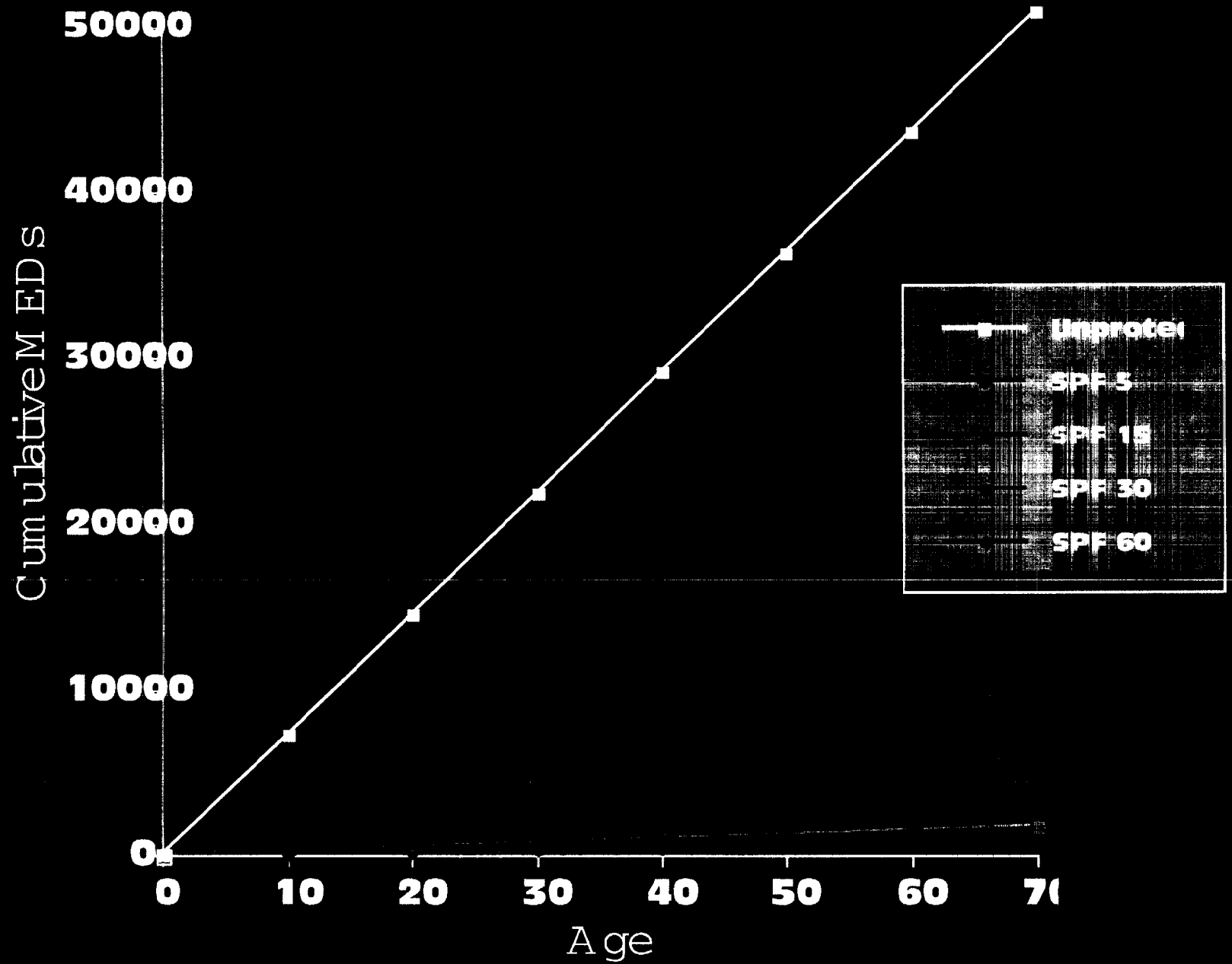
Need for Greater Protection with Higher Cumulative UV Doses



Annual MEDs in Selected U.S. Cities

Source: Nole G E, Johnson A W, Cheney M C, Znaiden A. Cumulative lifetime UVR exposure in the United States and the effect of various levels of sunscreen protection. *Cosmetic Dermatology*. 1999;12:23-26.

Theoretical Lifetime MED Reductions



Lifetime MED Values[1]

Ages	SPF 0	5	10	15	30	50	60
0	0	0	0	0	0	0	0
10	7266	1453	727	484	242	145	121
20	14532	2906	1453	969	484	291	242
30	21798	4360	2180	1453	727	436	363
40	29064	5813	2906	1938	969	581	484
50	36330	7266	3633	2422	1211	727	606
60	43596	8719	4360	2906	1453	872	727
70	50862	10172	5086	3391	1695	1017	848

[1]Daily Ideal Use; Fort Worth, TX., 10% Total UV

Two-Year SPF Comparison[1]

SPF	Cumulative MEDs (2 yr)	Improvement Over Preceding SPF	Absolute Improvement	Apparent Improvement Over Previous SPF
0	1453			
5	291	80.0%	80.0%	
10	145	50.0%	90.0%	10.0%
15	97	33.3%	93.3%	3.3%
30	48	50.0%	96.7%	3.3%
50	29	40.0%	98.0%	1.3%
60	24	16.7%	98.3%	0.3%

[1]Daily Ideal Use; Fort Worth, TX., 10% Total UV

Important Goals for Sunscreen Use

Photosensitivity Protection

Cancer Prevention

Genetic Damage Prevention

Erythema Prevention